

MEETINGS

Radiation Research

INVITED and contributed papers on the physical, chemical, and biological effects of radiation will be given at the annual meeting of the Radiation Research Society, which is scheduled to take place on May 15-17 at the Sheraton-Park Hotel in Washington, D. C. An exhibit of pertinent instrumentation will be shown. Additional information can be obtained from the society's secretary-treasurer, E. L. Powers, Division of Biological and Medical Research, Argonne National Laboratory, Argonne, Ill.

Nuclear Electronics

A CONFERENCE on Nuclear Electronics will be held May 15-20 in Belgrade, Yugoslavia, under the sponsorship of the International Atomic Energy Agency. Among the specific topics to be covered are (1) scintillation and Čerenkov detectors; (2) gaseous and liquid ionization detectors; (3) semiconductor detectors; (4) pulse technique in classical and fast electronics; (5) advanced electronic assemblies used in nuclear research; and (6) new developments in radiation monitoring techniques.

An exhibition of relevant nuclear electronic equipment and instruments, arranged by the Belgrade Fair Administration, will be held at the time of the meeting. Persons wishing further information on the conference or the exhibition should contact the International Atomic Energy Agency, 11 Kärntner Ring, Vienna 1, Austria.

Computer Memory Techniques

NEW ideas, research, and developments which may lead to novel computer memories capable of storing very large amounts of information will be discussed at a Symposium on Large Capacity Memory Techniques for Computing Systems to be held May 23-25 in the Department of Interior Auditorium in Washington, D. C. The meeting will be sponsored by the Information Systems Branch of the Office of Naval Research.

Further information and a preliminary program, when it becomes available, should be requested from Miss Josephine Leno, Code 430A, Office of Naval Research, Washington 25, D. C.

Physics, Philosophy, and Reality

THE Departments of Physics and Philosophy of Marquette University are jointly arranging a four-day series of conferences on the nature and meaning of reality to be held June 12-15 on the Marquette campus in Milwaukee. The sessions are intended to represent a collaborative "exploration on the part of the physicist

and the philosopher into the nature of the real by way of questions such as 'What is real?' and 'What can be said about what is real?' and 'With what assurance can we say what we say about what is real?'"

The first three days will present a physicist speaker each morning, followed by a philosopher's commentary calculated to initiate questions, comments, and group discussion. The afternoon sessions will follow a similar pattern, except that the speaker will be a philosopher and the commentator a physicist. The last day will be devoted to a panel discussion to summarize the views expressed during the preceding days. The general topics and speakers for each day are as follows: June 12, The Nature and Limits of Our Knowledge of Physical Reality (E. P. Wigner and R. J. Henle, S.J.); June 13, The Fundamental Elements of the Physical Universe (G. Breit and P. Weiss); June 14, Determinism (R. J. Maurer and C. De Koninck).

All sessions will be held in the auditorium of the University's School of Medicine. Persons interested in attending should write to the director of the conference series, Dr. Edward D. Simmons, Department of Philosophy, Marquette University, Milwaukee 3, Wisc.

Gas Dynamics

NORTHWESTERN University will be host to the Fourth Biennial Gas Dynamics Symposium to be held August 23-25 under the joint sponsorship of the University's Gas Dynamics Laboratory, and the Committees on Electric Propulsion and Magnetohydrodynamics of the American Rocket Society. The symposium will examine the science, engineering, and state of the art of plasma physics, plasma dynamics, magnetohydrodynamics, and related fields.

The program tentatively includes the following topics: transport properties of plasmas, magnetohydrodynamic wave phenomena, experimental techniques and observations, propulsion, power generation, magnetohydrodynamic flows, and thermodynamic properties of plasmas. Research papers as well as review papers covering analytical and experimental work are to be presented and basic studies and applications will be included in the program.

Further information on the meeting can be obtained by writing to: Gas Dynamics Symposium, Mechanical Engineering Department, Northwestern University, Evanston, Ill.

Chemical Physics of Nonmetallic Crystals

MAY 1 is the deadline for submission of abstracts of papers to be presented at an International Symposium on the Chemical Physics of Nonmetallic Crystals to be held August 28-31 at Northwestern Uni-

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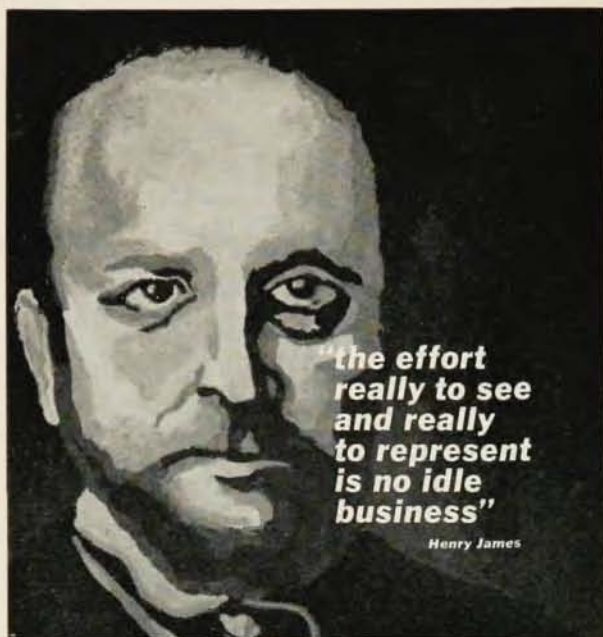
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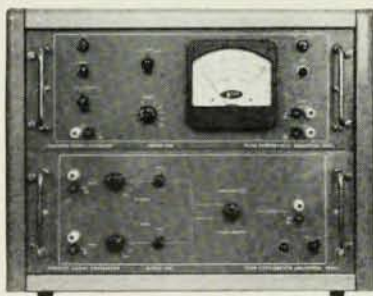
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versity, Evanston, Ill. It will be sponsored by the Divisions of Chemical Physics and Solid-State Physics of the American Physical Society, together with the Division of Physical Chemistry of the American Chemical Society.

The purpose of the symposium is to survey the knowledge of binding in nonmetallic crystals and the equilibrium properties of point defects, both chemical and structural, in these crystals. A proposed topical outline includes (1) quantum theory of nonmetallic crystals; (2) equilibrium properties of dilute solid solutions; (3) characterization of point defects in solids; and (4) the effect of point defects on chemical interactions at surfaces. Both invited and contributed papers will be presented and it is intended that they will be published either in an issue of a scientific journal or in an independent volume. Abstracts should be submitted to the program chairman, Prof. W. J. Moore, Department of Chemistry, Indiana University, Bloomington, Ind. For additional information, contact the symposium secretary, Dr. O. C. Simpson, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Ill.

IAEA Conference on Plasma Physics

GENERAL theory, mathematical methods, and theoretical and experimental problems of plasma physics will be considered at the International Atomic Energy Agency's annual Conference on Plasma Physics and Controlled Nuclear Fusion Research from September 4 to September 8, 1961 in Salzburg (*not* in Vienna, as was previously announced). The heading "general theory and mathematical methods" is intended to include transport theory, magnetohydrodynamics, and related topics. The theoretical and experimental portion of the program will include discussions of plasma confinement, stability, oscillations, and turbulence; plasma compression, heating, and acceleration; shock waves in plasma; interaction of particles and electromagnetic waves with plasma; and plasma waves and radiation (including cyclotron radiation).

The conference program will deal only with those fundamental processes in gas discharge which are motivated by controlled fusion research; topics concerning different types of discharges and their applications will be excluded. Such material will be treated separately one week earlier at the Fifth International Conference on Ionization Phenomena in Gases (Munich, August 28-September 1).

Requests for additional information should be sent to the International Atomic Energy Agency, 11 Kärntner Ring, Vienna 1, Austria.

Rutherford Jubilee

AN international conference to commemorate the discoveries of Ernest Rutherford (and, in particular, the occasion of the fiftieth anniversary of the Rutherford scattering law) will be held in England during the week of September 4-8 at the University of Manchester, where Lord Rutherford served as professor of